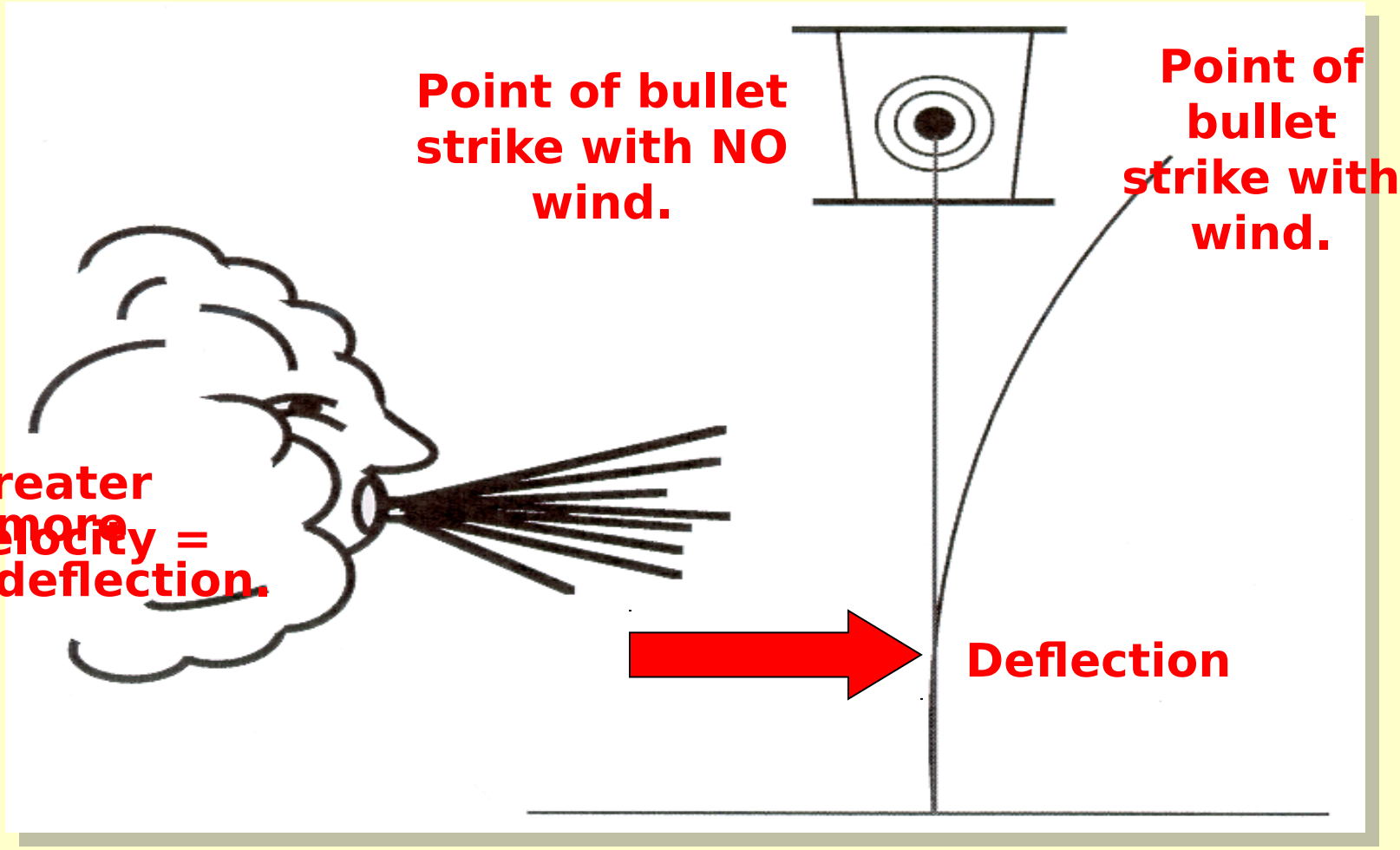
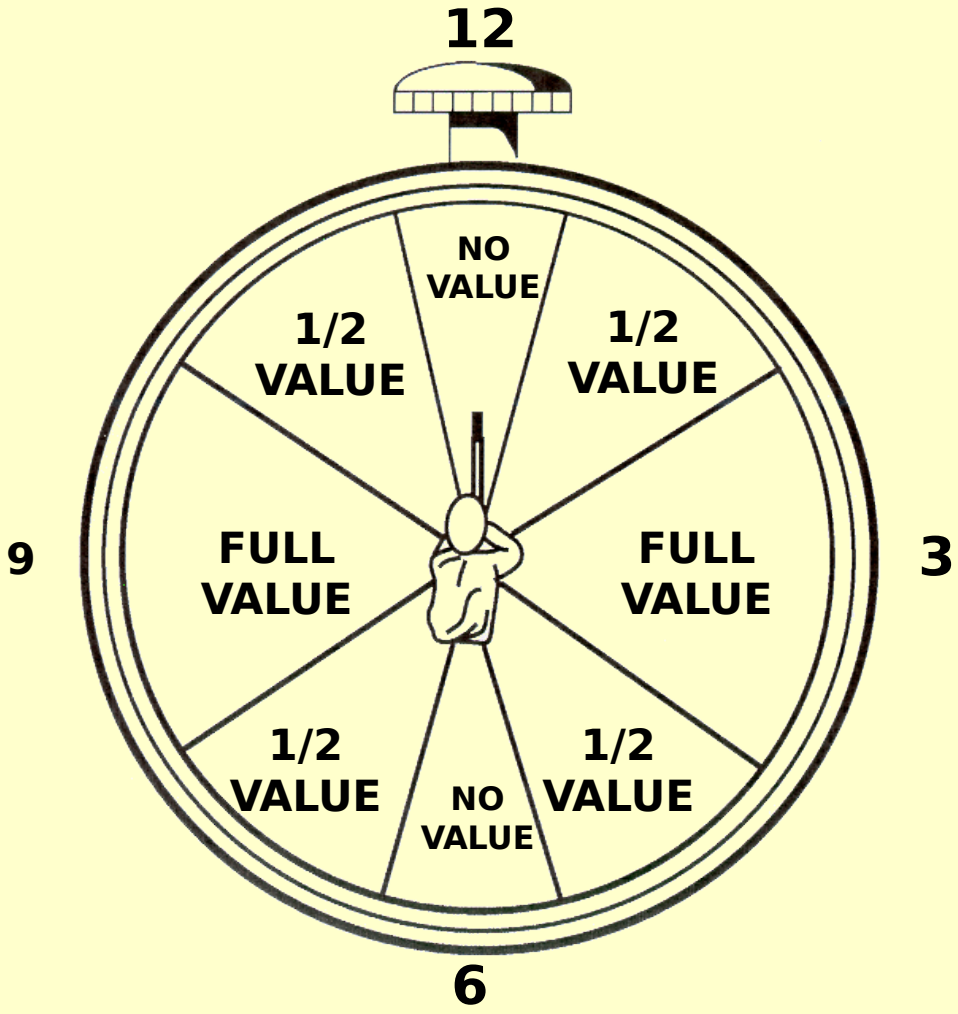
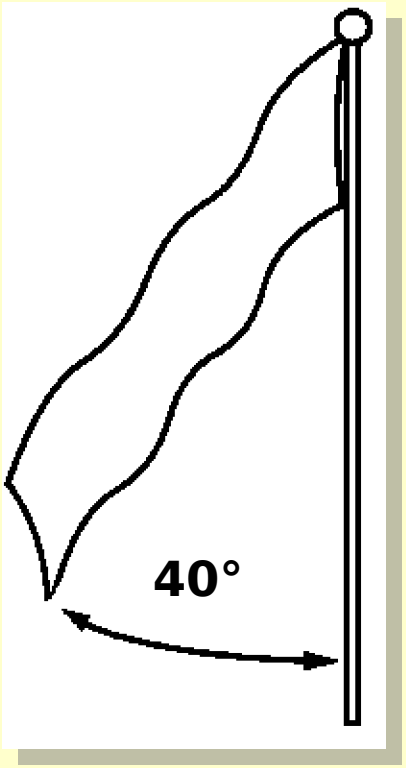
WIND DEFLECTION OF BULLET



THE CLOCK SYSTEM



THE FLAG METHOD



WIND

WIND VELOCITY FORMULA

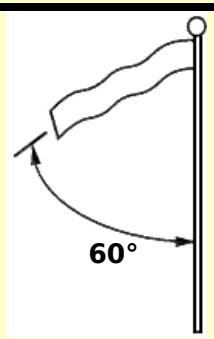
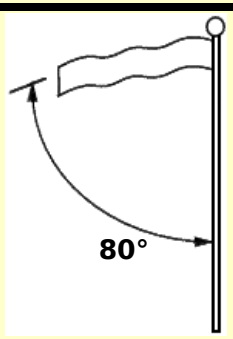
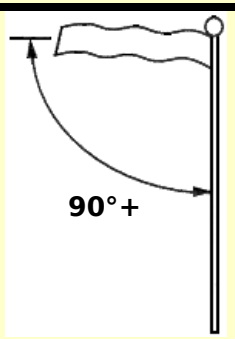
$$\frac{\text{ANGLE OF FLAG}}{4} = \text{MPH}$$

$$\frac{40°}{4} = 10 \text{ MPH}$$

WINDAGE CHART – OBSERVATION METHOD

	WINDS CAN BE FELT LIGHTLY ON FACE AND LEAVES ARE IN CONSTANT MOTION 3 - 8 MPH		WINDS RAISE DUST AND LOOSE PAPER 8 - 12 MPH		WINDS CAUSE SMALL TREES TO SWAY 12 - 15 MPH		WINDS CAUSE LARGE TREES TO SWAY 20 MPH		 25 MPH	
RANGE YARDS	WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE	
	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF
200	2	1	3	1	5	2	6	3	8	4
300	3	1	6	3	10	5	13	6	16	8
400	4	2	9	4	13	6	18	9	22	11
500	6	3	12	6	18	9	24	12	30	15

WINDAGE CHART – FLAG METHOD

RANGE FLAG ANGLES	5 MPH		10 MPH		 15 MPH		 20 MPH		 25 MPH	
RANGE YARDS	WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE	
	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF
200	2	1	3	1	5	2	6	3	8	4
300	3	1	6	3	10	5	13	6	16	8
400	4	2	9	4	13	6	18	9	22	11
500	6	3	12	6	18	9	24	12	30	15

DETERMINING CORRECT WINDAGE ADJUSTMENTS

$$\frac{\text{RANGE} \times \text{WIND VELOCITY (MPH)}}{\text{RANGE CONSTANT}} = \text{CLICKS FOR FULL VALUE WIND*}$$

YARDS / METERS	RANGE CONSTANT
200 - 400	5
500 - 700	4

*NOTE: FOR 1/2 VALUE WIND, DIVIDE NUMBER OF CLICKS BY TWO

EXAMPLE

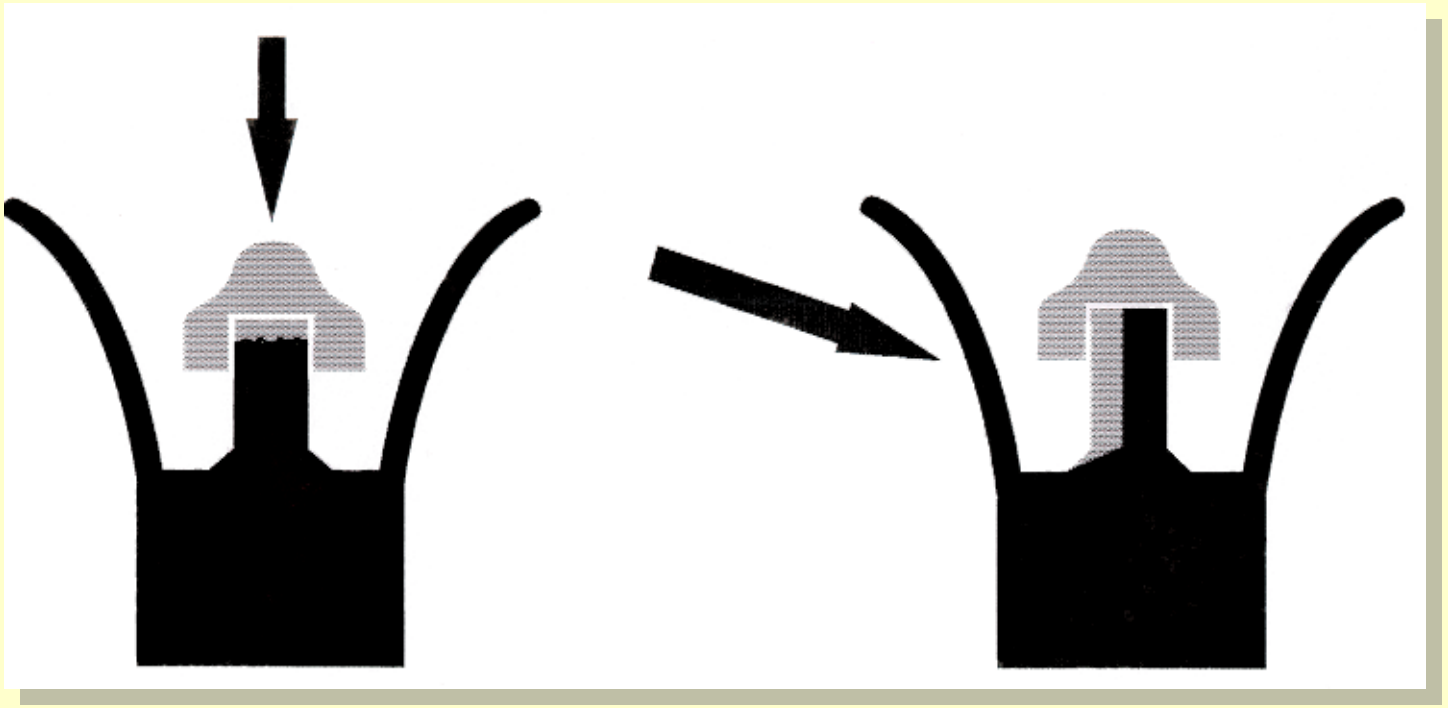
- **10 mph left wind blowing from 9 o'clock. Range to target is 500 yd/m.**
  - **Range (R) = 5**
  - **Velocity (V) = 10mph**
  - **500 – yd/m range constant = 4**

$$\frac{R \times V}{RC} = \frac{5 \times 10}{4} = \frac{50}{4} = 12.5 \text{ or } 13$$

clicks left on windage knob

- **Record wind conditions in the data book.**

BRIGHT LIGHT ON FRONT SIGHT POST



FRONT SIGHT TIP GLARE

FRONT SIGHT SIDE GLARE